STORM WATER MANAGEMENT AND EROSION CONTROL IN WEST FARGO

Presented April 11th 2012

ND Water and Pollution Control Conference

Presenter

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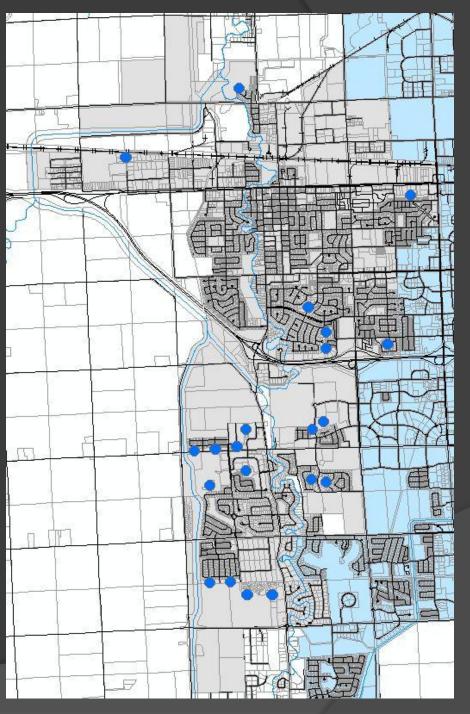


www.westfargond.gov



City Map





Sheyenne Diversion



Sheyenne Diversion



Sheyenne Diversion





City Statistics

- Population of 12,287 in 1990 to a population of 20,790 in 2006
- Projected to near 30,000 in 2015

- West Fargo's current land area is around 7,200 acres
- Around 8,000 households



City Statistics

- Phase II Community
 - At least 10,000 population
 - MS4 (Municipal Separate Storm Sewer System)
- Minimum Control Measures
 - Public Education and Outreach
 - Public Participation and Involvement
 - Illicit Discharge Detection and Elimination
 - Construction Site Runoff Control
 - Post-Construction Runoff Control
 - Pollution Prevention and Good Housekeeping



Topics

- Storm Water as an Asset
 - Neighborhood Amenity
 - Water Quality Improvements

- Construction Site Erosion Control
 - Residential Construction

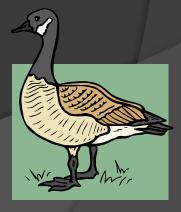


Storm Water as an Asset

Wet Retention Ponds

Increased property value
Scenic views
Flood prevention
Wildlife attraction
Green space





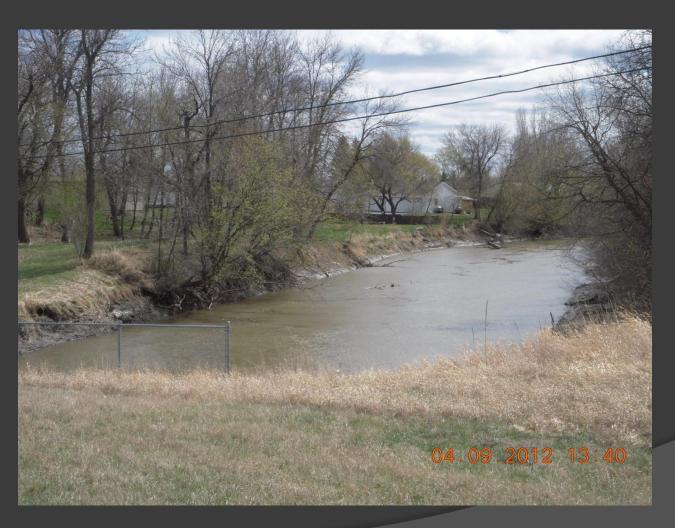


People are drawn to water





Sheyenne River



Flood Protection



Flood Protection





Flood Protection







Charleswood Storm Water Retention



Charleswood and Burlington Ponds

- -APWA Public Works Project of the Year 2002
- -Interconnected Storm Water Retention System
- -Reasons for Project-Recent Severe Flooding
 -NPDES Post-Construction Regs.
- -Three wet retention ponds that interconnect through gravity system with pumping stations
- -Can backfeed low lake levels from Sheyenne River
- -Isolate and Discharge Individually





Charleswood Pond





Charleswood Pond









Burlington Pond

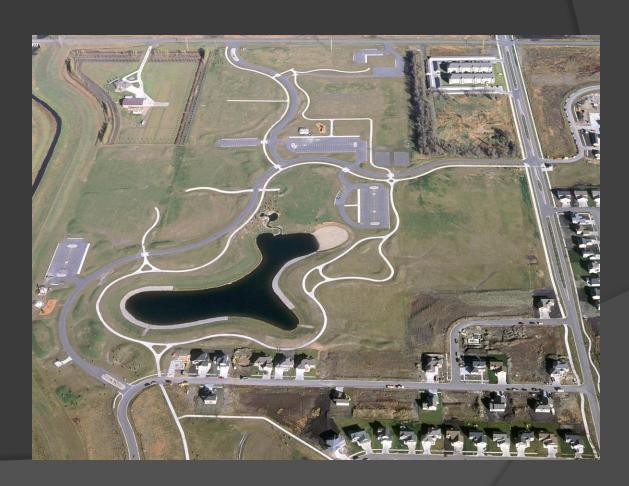




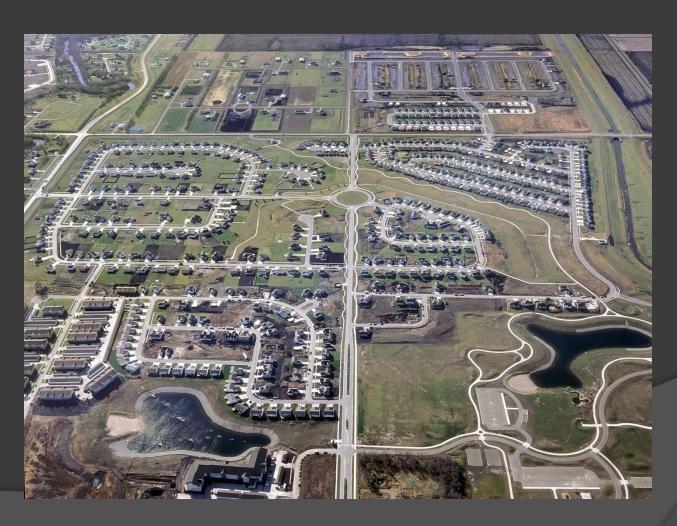
West Lake Apartment

























Other Ponds



Goldenwood Development



Other Ponds



Westport Beach







Dry Retention Ponds

West River





20 Wet Retention Ponds Total

8 Dry Retention Ponds

Water Quality, Quality, Quality



Water Quality





Update 2012

- Construction Standards
- Compliance Calendar
- Inspections/Regulation





Storm Water Management Standards for Single or Two Family Residential Construction

Updated 2008





Storm Water Management Standards for Commercial and Large Scale Residential Construction

Updated 2008







STORMWATER COMPLIANCE CALENDAR

2008

City of West Fargo Public Works Department 810 12th Ave NW, West Fargo ND 58078 Phone: 701-433-5400 Fax: 701-433-5419





The City of West Fargo Storm Water Management Permit



General Information

Site Address:				Acres:	
Start Date: Completion Date		nte:	Phone:	Phone:	
Owner/General Contractor:		Fax:	Fax:		
Mailing Address:					
	Permit In	nformation			
☐ New Multi-Unit Re ☐ Commercial * (Plans ☐ Infrastructure * (Incl	s & SWPPP to be approve tudes: Streets, Sewer, Wa	WPPP to be app ed by City of W ter, Sidewalks,	/est Fargo) Utility, Etc)	Fargo)	
Building Permit Number	N	DPDES Perm	nit Number:		
Hereby certify that I have rece West Fargo and I am responsib management standards during a modify implemented protector is adequately treated by storm v delivery personnel at the works Owner / Contractor Sig	le for implementing, mainta construction on the lots liste in measures as site conditions water controls. I will also be ite.	ining, and monit d above. I also us s develop to cont responsible for	oring the effectiveness o nderstand that I may nee rol on-site erosion and et the actions of all subcont	f the storm water d to supplement or nsure all site runoff ractors and	
Printed Name			Phone		
	City U	se Only			
rmit Number: Date Iss		ued: Date Expired:			
Fee: Paid # Permit Fee Schedule 0 - 3 acres \$15 with a \$5 per acre additional fee for those over 3 acres. All acreage rounded UP to nearest acre. 1 Acre = 43,560 Square Feet.		Approved By:			
		SWPPP Approval Number:			

City of West Fargo Public Works Department 810 12th Ave NW. Phone 701-433-5400













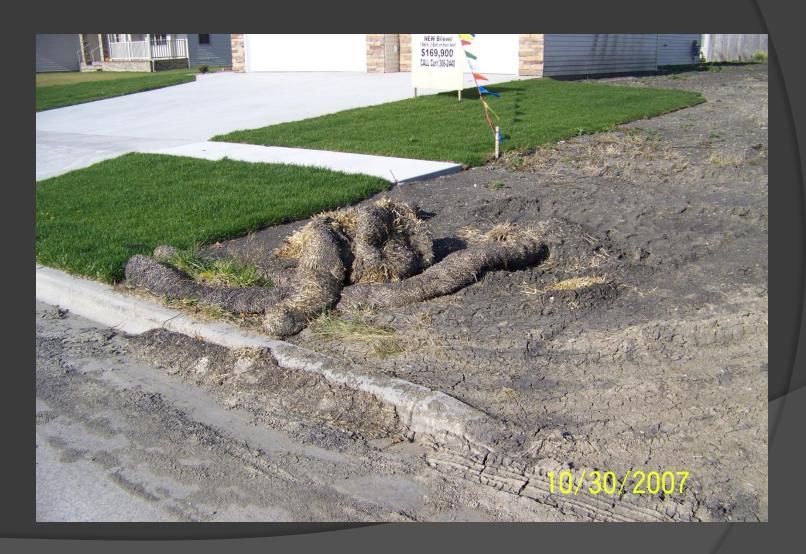




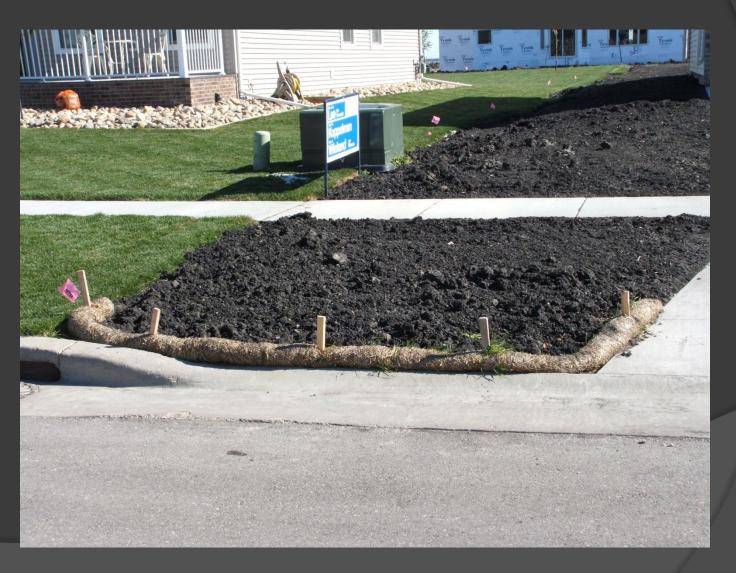




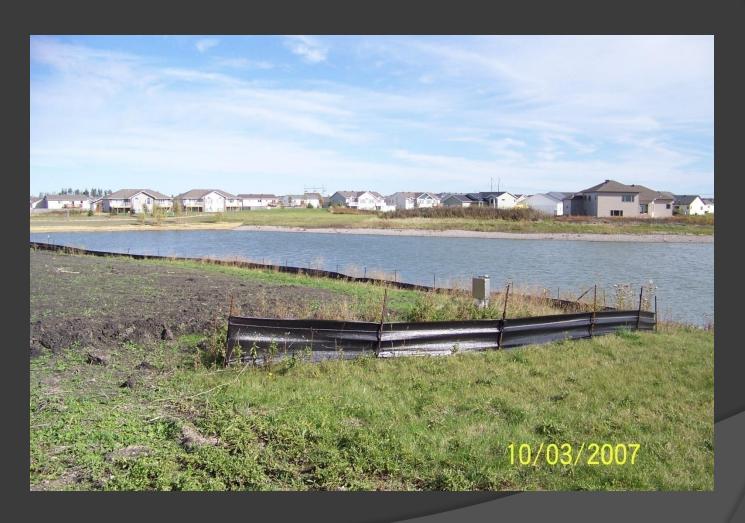








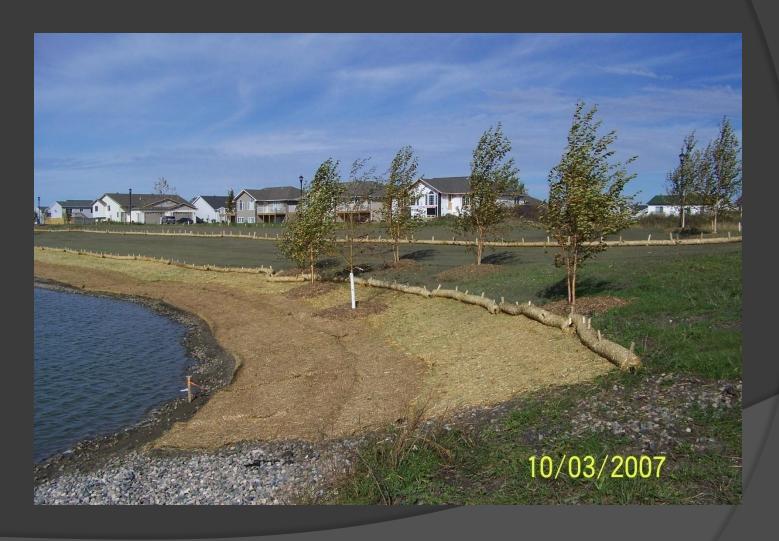




































































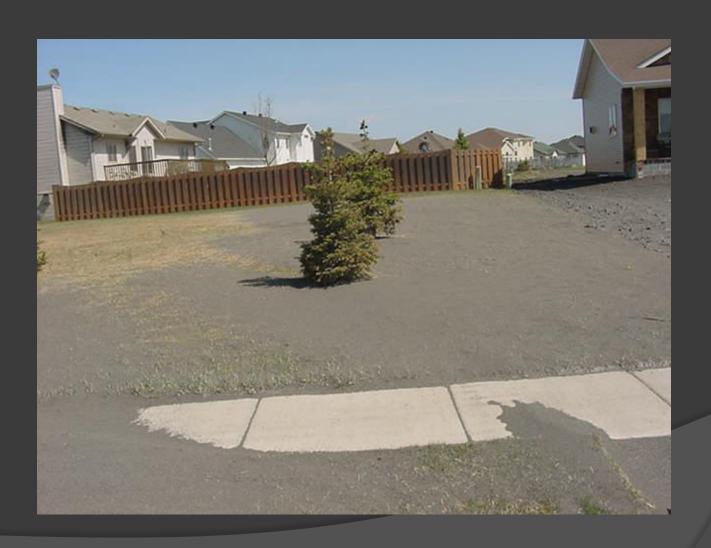






















•Any Questions?

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